

Project 2 System Test Plan

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Date: 10/23/2023

Introduction

Provide an overview of your system plan. Describe how a tester would start the system.

This System Plan will contain **5** tests to fully verify the system meets all the requirements.

To start the SystemTestLog application:

1. **Open eclipse on your computer and open the Project2 project file in the package explorer**
2. **Navigate into the src/ folder and right-click on the edu.ncsu.csc216.Application.view.ui package**
3. **In the resulting menu, expand the “Run as” tab and click on Java Application**
4. **The Program will open**

Test Files

Prove the contents of any test files that are needed for testing.

Located in the **test-files** folder.

test-plans1.txt

```
! WolfScheduler
# Invalid File,Equivalence Class
* 1. Run WolfScheduler GUI
2. In the Load Course Catalog File Chooser dialog select: testfiles/invalid_course_records.txt
3. Click Select
4. Check Results
5. Close GUI
* WolfSchedulerGUI loads
Course Catalog is empty
My Schedule is empty
```

Course Details only shows labels

- PASS: everything is empty
- FAIL: courses are listed
- PASS: everything is empty

Valid File, Requirements

* 1. Run WolfScheduler GUI

2. In the Load Course Catalog File Chooser dialog select: testfiles/_course_records.txt

3. Click Select

4. Check Results

5. Close GUI

* Course catalog contains 13 courses

Add No Selection, Invalid

* Precondition: Valid File test has passed

1. Make sure that no row in the Course Catalog table is selected

2. Click Add Course

3. Check results

4. Click OK

5. Close GUI

* A pop up dialog stating "No course is selected in the catalog." is displayed.

- FAIL: no pop up displays

! PackScheduler

T24 Add new course, Requirements

* Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run

1. Enter the following course information:

Course Name: CSC 236

Course Title: Computer Organization and Assembly Language

Course Section: 001

Credits: 3

Instructor Id: lasher

Start Time: 10:15AM

End Time: 11:30AM

Meeting Days: Tuesday & Thursday

Click Add Course

Click OK

* Course is added to the list in the appropriate location

- PASS: course added (Lab 5)
- FAIL: course not added b/c of invalid course name (Lab 6)

Invalid course name, Invalid

* Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run

1. Enter the following course information:

Course Name: CSC236

Course Title: Computer Organization and Assembly Language
 Course Section: 001
 Credits: 3
 Instructor Id: lasher
 Start Time: 10:15AM
 End Time: 11:30AM
 Meeting Days: Tuesday & Thursday
 Click Add Course
 Click OK
 * Error message: Invalid course name
 - PASS: correct error message (Lab 5)

System Tests

Write at least 5 tests. We will grade the first five. Your tests should consider more complex scenarios than basic system startup and an invalid test file.

Test ID	Description	Expected Results	Actual Results
Test 1: UC 0/1/3/4/8 Start GUI, Load STP File, Select Current test list, Clear System State, List Cases in Current Test Plan	Preconditions: None 1. Run SystemTestPlanGUI 2. <i>Check Results</i> 3. Click on " File " in top left of GUI, then click " Load Test Plan(s) " 4. In the Load Test Plan(s) FileChooser dialog select: test-files/test-plans1.txt 5. <i>Check Results</i> 6. Click " File " in the top left of the GUI, and then click " Clear Test Plan(s) " 7. <i>Check Results</i> 8. Click No 9. <i>Check Results</i> 10. Close GUI	The GUI opens and displays the File menu to load [UC1], save [UC2], and clear [UC3] system state and buttons to work with products (Add Product, Delete Product, and Edit Product)[UC5-7] and contains empty test case table[UC 8] with buttons to Move up, front, down, or back [UC 11] , and panel to Add/Remove a test case to the current Plan[UC 9-10], and option to Record Actual Test Results [UC 12]. The current Test plan is Failing Tests. The Test Case table is empty.	The GUI opens and displays the File menu to load [UC1], save [UC2], and clear [UC3] system state and buttons to work with products (Add Product, Delete Product, and Edit Product)[UC5-7] and contains empty test case table[UC 8] with buttons to Move up, front, down, or back [UC 11] , and panel to Add/Remove a test case to the current Plan[UC 9-10], and option to Record Actual Test Results [UC 12]. The current Test plan is Failing Tests. The Test Case table is empty.

		<p>Test Case table should List:</p> <ul style="list-style-type: none"> • “T24 Add new course”, “Requirments”, “PackScheduler” • “Valid File”, “Requirments”, “WolfScheduler” • “Add no selection”, “Invalid”, “WolfScheduler” <p>Warning pop-up dialog box pops up and says “Test Plans are unsaved. Would you like to save before clearing?”</p> <p>The test case table is empty, and the current Test Plan is Failing Tests</p>	<p>Test Case table should List:</p> <ul style="list-style-type: none"> • “T24 Add new course”, “Requirments”, “PackScheduler” • “Valid File”, “Requirments”, “WolfScheduler” • “Add no selection”, “Invalid”, “WolfScheduler” <p>Warning pop-up dialog box pops up and says “Test Plans are unsaved. Would you like to save before clearing?”</p> <p>The test case table is empty, and the current Test Plan is Failing Tests</p>
<p>Test 2: UC 5/6/7</p> <p>Add a Test plan, Edit a test plan, Remove a test plan</p>	<p>Preconditions: none</p> <ol style="list-style-type: none"> 1. Run STPGUI 2. Click Add Test Plan 3. <i>Check Results</i> 4. Enter “Nerf” into dialog box 5. Click OK 6. <i>Check Results</i> 7. Click Edit Test Plan 8. <i>Check Results</i> 9. Enter “NerfOrNothing” into dialog box 10. Click OK 11. <i>Check Results</i> 12. Click Remove Test Plan 13. <i>Check Results</i> 	<p>A pop-up dialog with the text “Test Plan Name?” prompts you for a String input.</p> <p>Current Test Plan should be “Nerf”</p> <p>A pop-up dialog with the text “Test Plan Name?” prompts you for a String input.</p> <p>Current Test Plan should be “NerfOrNothing”</p> <p>Current Test Plan should be Failing Tests</p>	<p>A pop-up dialog with the text “Test Plan Name?” prompts you for a String input.</p> <p>Current Test Plan should be “Nerf”</p> <p>A pop-up dialog with the text “Test Plan Name?” prompts you for a String input.</p> <p>Current Test Plan should be “NerfOrNothing”</p> <p>Current Test Plan should be Failing Tests</p>

<p>Test 3: UC 9/10/11</p> <p>Add a Test case to current plan, remove a test case from current plan, and order test cases in current plan</p>	<p>Preconditions: None</p> <ol style="list-style-type: none"> 1. Run STPGUI 2. <i>Check Results</i> 3. Click on "File" in top left of GUI, then click "Load Test Plan(s)" 4. In the Load Test Plan(s) FileChooser dialog select: <code>test-files/test-plans1.txt</code> 5. Click Dropdown Menu for Current Test Plan and select PackScheduler 6. <i>Check Results</i> 7. In the Test Case table, click Invalid course name and click the Move Up button 8. <i>Check Results</i> 9. Click on the Current Test Plan dropdown and select WolfScheduler, then select the last task. Then click on the Current Test Plan dropdown and select PackScheduler 10. In the right panel to add test case, Fill out the fields with the following information: <ol style="list-style-type: none"> a. Test Case ID: "Invalid course section" b. Test type: "Invalid" c. Description: "Preconditions: none" d. Expected Results: "Error Message: Invalid section" e. Leave everything else blank 11. Click Add 12. <i>Check Results</i> 	<p>Test Case Table should include:</p> <ul style="list-style-type: none"> • "T24 Add new course", "Requirments", "FAIL" • "Invalid course name", "Invalid", "PASS" <p>Test Case Table should include:</p> <ul style="list-style-type: none"> • "Invalid course name", "Invalid", "PASS" • "T24 Add new course", "Requirments", "FAIL" <p>Test Case Table should include:</p> <ul style="list-style-type: none"> • "Invalid course name", "Invalid", "PASS" • "T24 Add new course", "Requirments", "FAIL" • "Invalid course section", "Invalid", "FAIL" <p>Test Case Table should include:</p> <ul style="list-style-type: none"> • "Invalid course name", "Invalid", "PASS" • "T24 Add new course", "Requirments", "FAIL" 	<p>Test Case Table should include:</p> <ul style="list-style-type: none"> • "T24 Add new course", "Requirments", "FAIL" • "Invalid course name", "Invalid", "PASS" <p>Test Case Table should include:</p> <ul style="list-style-type: none"> • "Invalid course name", "Invalid", "PASS" • "T24 Add new course", "Requirments", "FAIL" <p>Test Case Table should include:</p> <ul style="list-style-type: none"> • "Invalid course name", "Invalid", "PASS" • "T24 Add new course", "Requirments", "FAIL" <p>Test Case Table should include:</p> <ul style="list-style-type: none"> • "Invalid course name", "Invalid", "PASS" • "T24 Add new course", "Requirments", "FAIL"
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	13. Click on "Invalid course section" Test Case in the Test Case Table 14. Click Remove 15. <i>Check Results</i>		
Test 4: UC 12 Record Actual Results of a Test Case	Preconditions: Test 3 1. <i>Check Results</i> 2. Click on the Case "T24 Add new course" 3. In the Record Actual Results section, enter: "Course added" 4. Select PASS for the in the "Pass or Fail?" section. 5. Click Record Result 6. <i>Check Results</i>	Test Case Table should include: <ul style="list-style-type: none"> • "Invalid course name", "Invalid", "PASS" • "T24 Add new course", "Requirments", "FAIL" Test Case Table should include: <ul style="list-style-type: none"> • "Invalid course name", "Invalid", "PASS" • "T24 Add new course", "Requirments", "PASS" 	Test Case Table should include: <ul style="list-style-type: none"> • "Invalid course name", "Invalid", "PASS" • "T24 Add new course", "Requirments", "FAIL" Test Case Table should include: <ul style="list-style-type: none"> • "Invalid course name", "Invalid", "PASS" • "T24 Add new course", "Requirments", "PASS"
Test 5: UC 2, 13 Save the System State to a file, Close the GUI	Preconditions: Tests 3,4 1. <i>Check results</i> 2. In the top left of the GUI, click File and then click Save 3. In the Save Products FileChooser dialog select: test-files/actual_results.txt 4. Click Save 5. <i>Check Results</i> 6. Close GUI by clicking on the X in the top right of the GUI	Test Case Table should include: <ul style="list-style-type: none"> • "Invalid course name", "Invalid", "PASS" • "T24 Add new course", "Requirments", "PASS" actual_results.txt contains: ! PackScheduler # Invalid course name, Invalid * Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run 1. Enter the following course information: Course Name: CSC236	Test Case Table should include: <ul style="list-style-type: none"> • "Invalid course name", "Invalid", "PASS" • "T24 Add new course", "Requirments", "PASS" actual_results.txt contains: ! PackScheduler # Invalid course name, Invalid * Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run 1. Enter the following course information: Course Name: CSC236

		<p>Course Title: Computer Organization and Assembly Language</p> <p>Course Section: 001</p> <p>Credits: 3</p> <p>Instructor Id: lasher</p> <p>Start Time: 10:15AM</p> <p>End Time: 11:30AM</p> <p>Meeting Days: Tuesday & Thursday</p> <p>Click Add Course</p> <p>Click OK</p> <p>* Error message:</p> <p>Invalid course name</p> <p>- PASS: correct error message (Lab 5)</p> <p># T24 Add new course,Requirements</p> <p>* Preconditions:</p> <p>PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run</p> <p>1. Enter the following course information:</p> <p>Course Name: CSC 236</p> <p>Course Title: Computer Organization and Assembly Language</p> <p>Course Section: 001</p> <p>Credits: 3</p> <p>Instructor Id: lasher</p> <p>Start Time: 10:15AM</p> <p>End Time: 11:30AM</p> <p>Meeting Days: Tuesday & Thursday</p> <p>Click Add Course</p>	<p>Course Title: Computer Organization and Assembly Language</p> <p>Course Section: 001</p> <p>Credits: 3</p> <p>Instructor Id: lasher</p> <p>Start Time: 10:15AM</p> <p>End Time: 11:30AM</p> <p>Meeting Days: Tuesday & Thursday</p> <p>Click Add Course</p> <p>Click OK</p> <p>* Error message:</p> <p>Invalid course name</p> <p>- PASS: correct error message (Lab 5)</p> <p># T24 Add new course,Requirements</p> <p>* Preconditions:</p> <p>PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run</p> <p>1. Enter the following course information:</p> <p>Course Name: CSC 236</p> <p>Course Title: Computer Organization and Assembly Language</p> <p>Course Section: 001</p> <p>Credits: 3</p> <p>Instructor Id: lasher</p> <p>Start Time: 10:15AM</p> <p>End Time: 11:30AM</p> <p>Meeting Days: Tuesday & Thursday</p> <p>Click Add Course</p>
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		<p>Click OK</p> <ul style="list-style-type: none"> * Course is added to the list in the appropriate location - PASS: course added (Lab 5) - FAIL: course not added b/c of invalid course name (Lab 6) - PASS: Course added <p>! WolfScheduler # Invalid File,Equivalence Class</p> <ul style="list-style-type: none"> * 1. Run WolfScheduler GUI 2. In the Load Course Catalog File Chooser dialog select: testfiles/invalid_course_records.txt 3. Click Select 4. Check Results 5. Close GUI <p>* WolfSchedulerGUI loads Course Catalog is empty My Schedule is empty Course Details only shows labels</p> <ul style="list-style-type: none"> - PASS: everything is empty - FAIL: courses are listed - PASS: everything is empty 	<p>Click OK</p> <ul style="list-style-type: none"> * Course is added to the list in the appropriate location - PASS: course added (Lab 5) - FAIL: course not added b/c of invalid course name (Lab 6) - PASS: Course added <p>! WolfScheduler # Invalid File,Equivalence Class</p> <ul style="list-style-type: none"> * 1. Run WolfScheduler GUI 2. In the Load Course Catalog File Chooser dialog select: testfiles/invalid_course_records.txt 3. Click Select 4. Check Results 5. Close GUI <p>* WolfSchedulerGUI loads Course Catalog is empty My Schedule is empty Course Details only shows labels</p> <ul style="list-style-type: none"> - PASS: everything is empty - FAIL: courses are listed - PASS: everything is empty
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